```
> d.his
    (FILE 'USPAT' ENTERED AT 14:35:47 ON 14 FEB 97)
       147924 S ACCOUNT?
L1
         98982 S L1 AND SYSTEM
L2
           794 S LEDGER
L3
L4
           188 S L2 (P) L3
L5
           188 S L2(P)L3
           31 S (TRANSMIT? OR SHARE) (4W) (FINANC?) (4W) (INFORM? OR DATA)
L6
            1 S L5 AND L6
L7
L8
          9597 S ACCOUNTING
L9
          505 S L8 (1W) SYSTEM
           11 S L8 (1P) ACCRUAL
L10
           58 S BILL PAYMENT
L11
            0 S L11 (W) ELECTRONIC
L12
            6 S ELECTRONIC BILL PAYMENT
L13
            0 S AUTOMATIC BILL PAYMENT
L14
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d his
 (FILE 'USPAT' ENTERED AT 14:35:47 ON 14 FEB 97)
      147924 S ACCOUNT?
L1
L2
          98982 S L1 AND SYSTEM
            794 S LEDGER
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L4
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L7
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L11
            0 S L11 (W) ELECTRONIC
6 S ELECTRONIC BILL PAYMENT
0 S AUTOMATIC BILL PAYMENT
L12
L13
L14
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	,(FILE	'USPAT'	ENTERED AT 18:29:57 ON 12 FEB 97)
L1		3 S	ACCRUAL ACCOUNTING
L2		3 S	ACCRUAL ACCOUNT?
L3		110 S	ACCRUAL
L4		6 S	L3 AND LEDGER

.

FILE 'USPAT' ENTERED AT 17:18:39 ON 29 NOV 95

\* WELCOME TO THE

=> s ledger!

L1 164 LEDGER!

7656 SUBSIDIARY 200001 SECONDARY

L2 382030 (ALTERNATE OR SUBSIDIARY OR SECONDARY)

 $\Rightarrow$  s 364/clas

L3 58543 364/CLAS

=> s (11 and 12) and 13

L4 4 (L1 AND L2) AND L3

=> disp 14 1-, cit, kwic

1. 5,459,657, Oct. 17, 1995, Employee time entry and accounting system; Stephen A. Wynn, et al., \*\*364/401\*\* [IMAGE AVAILABLE]

US PAT NO: 5,459,657 [IMAGE AVAILABLE] L4: 1 of 4 US-CL-CURRENT: \*\*364/401\*\*

# SUMMARY:

## BSUM(10)

As . . . employee must be collected and delivered to the accounting department where the time data is manually input into either accounting \*\*ledgers\*\* or a computer system.

## SUMMARY:

### BSUM(17)

In . . . in the cafeteria for each employee must then be transmitted to the accounting department for manual entry into either accounting \*\*ledgers\*\* or a computerized system.

### DETDESC:

### DETD (28)

FIG. . . . from the memory files of the computer 104 and sends this information to the appropriate time clock 101. As a \*\*secondary\*\* function, the front end process 190 verifies correct transmission of data to and from the concentrators 102

using well known. . . DETDESC:

The . . . sent to a central computer thereby minimizing the need and cost of additional entry of these hours into either account \*\*ledgers\*\* or a computerized system.

2. 5,227,967, Jul. 13, 1993, Security instrument data system without property inapplicable nulls; Stephen C. Bailey, \*\*364/408\*\* [IMAGE AVAILABLE]

US PAT NO: 5,227,967 [IMAGE AVAILABLE] L4: 2 of 4 US-CL-CURRENT: \*\*364/408\*\*

3. 5,117,356, May 26, 1992, Automated ledger account maintenance system; Ronald Marks, \*\*364/406\*\* [IMAGE AVAILABLE]

US PAT NO: 5,117,356 [IMAGE AVAILABLE] L4: 3 of 4 US-CL-CURRENT: \*\*364/406\*\*

=> s 5117356/pn L5 1 5117356/PN

=> disp 15 all
ENTER ANSWER NUMBER OR RANGE (1):1

\*\*5,117,356\*\* [IMAGE AVAILABLE] May 26, 1992 L5: 1 of 1 Automated ledger account maintenance system

INVENTOR: Ronald Marks, Philadelphia, PA

ASSIGNEE: DNS, Inc., Philadelphia, PA (U.S. corp.)

APPL-NO: 07/387,134 DATE FILED: Jul. 28, 1989 INT-CL: [5] G06F 15/30

US-CL-ISSUED: 364/406 US-CL-CURRENT: 364/406 SEARCH-FLD: 364/406

REF-CITED:

U.S. PATENT DOCUMENTS

3,749,892 7/1973 Stenning 364/406 4,642,767 2/1987 Lerner 364/406 4,843,548 6/1989 Carpenter 364/406

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Is Real Time Software Ahead of Time?, Steve Cowherd, Accounting Today, Systems Management, Dec. 14, 1987.

Numbers Gain New Meaning, Shawn Bryan, Accounting and Financial Systems, Computerworld, Jul. 20, 1987.

ART-UNIT: 231

PRIM-EXMR: Dale M. Shaw

ASST-EXMR:

David Huntley

LEGAL-REP:

Dann, Dorfman, Herrell and Skillman

#### ABSTRACT:

An automated ledger account maintenance system provides up-to-the-minute balances in all ledger accounts whenever data relating to a completed transaction is entered. The system is implemented on a general purpose computer and includes a predefined data file structure including ledger account data files corresponding to the ledger accounts and transaction record data files corresponding to transaction journals. Compliance with user definable accounting procedures is ensured through the use of an accounting control table that contains symbolic codes used by the recordkeeping procedures to authorize and control the creation and updating of the ledger account and transaction record data files. Cross-referencing and indexing of ledger account records, transaction records, and the second control records is provided to ensure a high degree of resistance to unauthorized alteration of the data files and to provide for traceability of all entries and postings.

17 Claims, 8 Drawing Figures

=> logoff y U.S. Patent & Trademark Office LOGOFF AT 17:29:35 ON 29 NOV 95